Acc. Nr: Abstracting Service: CHENICAL ABST. 5/70

Ref. Code:

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oxanes. IV. Lesteva, T. M.; Ogorodnikov, S. K.; Nebylova, E. M.; Morozova, A. I. (USSR). Zh. Prikl. Khim. (Leningrad) 1970, 13(1), 150-1 (Russ). Phase equil. data were tabulated for systems of 4,4-dimethyl-1,3-dioxane, the 4-Et analog, and the 4,5-di-Me analog. The equil. of liq.-vapor in these followed Raoult's Law. Mixts. of these formed ideal systems. With H₂O, azeotropes were formed with the following b.p. and wt. % content of the nonaq. component shown: 4,4-Me₂, 92.85°, 64.8; 4-Et, 92.6°, 70.9; and 4,5-Me₂, 91.9°, 62.2%.

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UDC 621.385.832.032.36.002.237(088.8)-(47):621.397,62:621.397.132

ALEKSEYEV, I. A., ZHUKOVSKAYA, E. I., GLINKA, A. P., HOROZOVA, A. V., and RUMYANTSEVA, T. Ya.

"Luminous Coating for Screens of Cathode-Ray Tubes"

USSR Author's Certificate No 275240, filed 7 Mar 69, published 18 Nov 70 (from RZh-Elektronika i yeye primeneniye, No 7, July 1971, Abstract No 7A284P)

Translation: The proposed luminopher covering consists of 2-component $(v_{\pi}Al_{\pi}O_{12}Ce-60-70 \text{ percent}, Sr_{\pi}(PO_{4})_{2}$. Eu-30-40 percent) or 3-component $(v_{\pi}Al_{\pi}O_{12} \cdot Ce-60 \cdot 70 \text{ percent}, Sr_{\pi}(PO_{4})_{2} \cdot Su-20 \cdot 15 \text{ percent}, V_{2}BiO_{5}Ce-20 \cdot 15 \text{ percent})$ mixture of luminophors. The high efficiency and short time of afterglow, amounting to 0.15-0.20 microsecond at a level of five percent from the brightness at the moment of cessation of excitation, makes it possible to increase the signal-to-noise ratio in all the color channels of a television picture tube and to improve the quality of the image. The method of precipitation in water of a solution of a silicate of K and $Sr(NO_{3})_{2}$ is used for deposition of the luminophor covering.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UDC: 621.385.832.032.36

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ALEKSEYEV, I. A., ZHUKOVSKAYA, E. I., GLINKA, A. P., MOROTOVA, A. Y., RUMYANTSEVA, T. Ya.

"A Luminescent Coating for the Screens of Cathode Ray Tubes"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Enaki, No 22, 1970, Soviet Patent No 275240, Class 21, filed 7 Mar 69, p 58

Abstract: This Author's Certificate introduces: 1. A luminescent coating for the screens of cathode ray tubes based on cerium-activated yttrium aluminate Y3Al5Ol2·Ce. As a distinguishing feature of the patent, the effectiveness of screen emission in the blue region of the spectrum is improved and the time of afterglow is reduced by introducing the phosphor Sr3(FO4)2·Eu into the composition of the coating. 2. A modification of this coating distinguished by the fact that color saturation is increased by additional introduction of the phosphor Y2SiO5·Ce. 3. A modification of coating by additional introduction of the phosphor Y2SiO5·Ce. 3. A modification of coating No 1 distinguished by the fact that its ingredients are taken in the following proportions (in percent by weight): Y3Al5Ol2·Ce-60-70; Sr3(FO4)2·Eu-3O-40. 4. A portions (in percent by weight): Y3Al5Ol2·Ce-60-70; Sr3(FO4)2·Eu-60-70; Sr3(FO4)2·Eu-20-15; Y2SiO5·Ce-20-15.

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1/2 019 UNCLASSIFIED TITLE--NEW POLISHING RESIN COMPOSITIONS -U- PROCESSING DATE--040EC70

AUTHOR--MOROZOVA, E.N.

COUNTRY OF INFO--USSR

SOURCE-OPT. MEKH. ORM. 1970, 37(2), 78

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--POLYSTYRENE RESIN, OPTIC GLASS, GLASS PROCESSING, ROSIN, ABRASION RESISTANCE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/0873

STEP NO--UR/0237/70/037/002/0078/0078

CIRC ACCESSION NO--APOL34602

UNCLASSIFIED

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BORIN, A. V., SLESAREVA, V. I., MOROZOVA, G. G., OLEYNIKOVA, V. I.

"The Effect of Sodium Thiosulfate on Photographic Properties and Storage Life of Optically Sensitized Emulsion Layers"

Uspekhi nauchn. fotogr. (Advances in Scientific Photography), 1970, Vol. 14, pp 116-123 (from RZh-Fizika, No 12(I), Dec 70, Abstract No 12D1337)

Translation: The effect of different amounts of sodium thiosulfate (I) introduced into optically sensitized emulsions on the change in their properties and additional light sensitivity at the time of introduction when the emulsions stand in a melted state or when dry layers are kept for an extended period is investigated. The introduction of I before the dyes only slightly effects the sensitivity properties but considerably lowers the additional sensitivity under subsequent optical sensitization (it drops more for more sodium thiosulfate). The effect of I as the melted emulsion stands is the same and depends on its quantity and on the dye: a retardation of the drop in the additional sensitivity and its

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acceleration or transition from acceleration to retardation are encountered. Similar phenomena were observed under extended storage of dry layers: as in the melted state sodium thiosulfate may also cause a rise in fogging; it is especially considerable in those cases when the emulsion layers contain polyethylene glycol. The different effects of I under different conditions are primarily associated with its two functions: etching of the AgHal surface, by which the bond of the sensitivity centers with the surface is weakened, and the effect of dyes on the rate of discoloration, the products of which can desensitize or fog the emulsion. Displacement of the dye from the AgHal is also possible due to I, and in the presence of polyethylene glycol there is also slow oxidation of I and an intensification of electron-acceptor properties of sensitivity centers. 16 references. Authors abstract.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

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UDC 669.721.5'5'296:620.193.4

TIMONOVA, M. A., AL'TMAN, M. B., TIMHONOVA, V. V., GERASIMOVA, M. N., TOMMAKOVA, G. S., LASHEO, M. F., LOROZOVA G. I.

"Effect of the Composition and Structure of Alloys of the Mg-Zn-Zr System on their Corrosion and Electrochemical Behavior"

V sb Struktura i svoystva legk. splavov (Structure and Properties of Light Alloys -- collection of works), Hoscov, Mauka Press, 1971, pp 136-140 (from Rzh-Metallurgiya, Mo 4, Apr 72, Abstract 41700)

Translation: A study was made of the effect of Zn on the structure and corrosion behavior of alloys of the Mg-Zn system and the Mg-Zn-Zr system with a Zn content of up to 20%; the effect of heat treatment leading to a change in the phase composition and in the quantity and shape of the segregations of intermetallide compounds on the corrosion strength of the alloys of the Mg-Zn-Zr system was also studied. The variation of corrosion resistance of the alloys is explained by the formation of cathode phases with different electrochemical properties and variation of their number and form of segregation. The increase in corrosion resistance with the introduction of Zr into the alloys of the Mg-Zn system is primarily connected with a decrease in the Fe admixture in the alloys. Six illustrations one table, and a 6-entry bibliography.

- 16 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

Analysis and Testing

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UDC 669.1.541.015

LASHKO, N. F., SASLAVSKAYA, L. Y., KOZLOVA, M. N., MOROZOVA, G. I., SOROKINA, K. P., KHAKHLOVA, N. V., and YAKOVLEVA, YE. F.

"Physical and Chemical Methods of Phase Analysis of Steels and Alloys"

Fiziko-Khimicheskiye Metody Fazovogo Analiza Staley i Splavov (English version above), Moscow, Metallurgiya Press, 1970, 476 pages

Translation of Annotation: Methods of combined physical and chemical phase analysis are systematized and summarized, including methods of phase separation and their chemical and x-ray structural analysis.

Problems of the theory of electrochemical separation of phases, the principles of selection of electrolytes and methods of phase analysis are analyzed as applicable to various steels and alloys.

The book is designed for scientific workers of scientific research institutes and plant laboratories involved in the development of steels and alloys, as well as the study of their properties depending on their phase composition.

99 figs, 100 tables, 708 biblio refs.

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UNCLASSIFIED PROCESSING DATE--11SEP7.0 TITLE-CALCULATION OF ELECTROMAGNETIC FIELDS APPLIED BY THE SOUNDING ON THE METHOD OF GROWING IN THE NEAREST ZONE -U-AUTHOR-KAUFMAN, A.A., KURILLO, V.N., MOROZOVA, G.M. COUNTRY OF INFO--USSR SOURCE-GEOLOGIYA I GEOFIZIKA, 1970, NR 1 (121) PP 92-101

DATE PUBLISHED----70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY

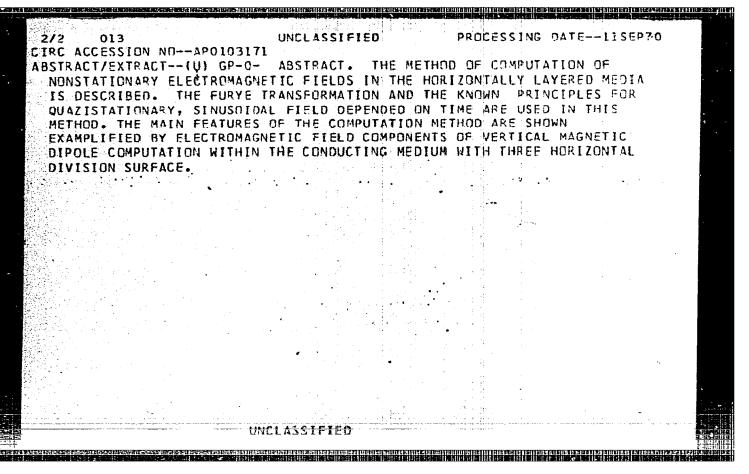
TOPIC TAGS--ELECTROMAGNETIC FIELD, MAGNETIC DIROLE, PROSPECTING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1289

STEP NO--UR/0210/70/000/001/0092/0101

CIRC ACCESSION NO--APO103171



USSR UDC: 621.375.026

PRUSLIN, V. Z. and MOROZOVA, G. N.

"Optimization of Signal Input Levels in TWT Amplification"

Moscow, Radiotekhnika, No 9, 1972, pp 86-88

Abstract: It is sometimes necessary, in a traveling wave tube amplifying the signal of several communications lines, that the signal/noise ratio for all the lines be the same. To achieve this, a special law for the frequency distribution of signal inputs is chosen. The purpose of this paper is to find such an optimum law. The authors begin their search with the solution for the nonlinear differential equations of a TWT operating in a mode of low non-linearity with several unmodulated signals applied to its input. The law is obtained and the coefficients in it found through the use of an electronic digital computer. The results are given of an experiment performed to calculate the signal/noise ratio for all signals with these coefficients specified, and to choose the optimum values of these coefficients — i.e., the values at which the difference between the maximum and minimum signal/noise values is a minimum.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

USSR

UD3 541.13:541.515:543.422.27

IL'YASOV, A. V., KARGIN, YU. M., MOROZOVA, I. D., CHERNOKAL'SKIY, B. D., VAFINA, A. A., MEL'NIKOV, B. V., GEL'FOND, A. S., MUKHTAROV, A. SH., and GALYAMETDINOV, YU. G., Institute of Organic and Physical Chemistry Imeni A. Ye. Arbuzov, Acad. Sc. USSR, and Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Electrochemically Generated Free Radicals. 9 Communication. Reduction of Some Nitrophenylarsine Derivatives and EPR Spectra of Their Anion Radicals"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 10, Oct 72, pp 2174-2178

Abstract: The mechanism of polarographic reduction of nitrophenyldiethylarsines and their oxides and sulfides in an aprotic medium was studied. These compounds exhibit two reduction waves, the first one corresponding to a one-electron wave, the process being reversible. The second wave is typical of a 3e-process. A diagram for the sequential chemical processes of these corpounds after the capture of second electron has been proposed. Both waves represent a stepwise oxidation of the unstable diamion of the substituted nitrobenzeme; the phenyl ring -- arsenic system remains untouched in this process. Novel organoarsine anion radicals have been obtained by electrochemical reduction and studied by the EPR method. Delocalization of the unpaired electron in these anion 1/2

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IL'YASOV, A. V., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 10, Oct 72, pp 2174-2178

radicals has been investigated analyzing possible reasons for a considerable decrease of the spin density on the arsenic atom during the transition from tetracoordinated arsenic atom of the anion radicals to a tri-coordinated one.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

USSR

UDC 538.113:541.515:547.63'118

IL'YASOV, A. V., LEVIN, Ya. A., MOROZOVA, I. D., VAFINA, A. A., GOZMAN, I. P., and ZOROATSKAYA, Ye. I., Institute of Organic Chemistry, imeni A. Ye. Arbuzov, USSR Academy of Sciences, Kazan'

"Delocalization of the Unpaired Electron in Phosphorus-Containing Anion-Radicals"

Moscow, Doklady Akademii Nauk SSSR, Vol 201, No 1, Nov-Dec 1971, pp 108-111

Abstract: It is of current interest whether elements of the third period function as barriers in conjugated systems, or are able to participate in conjugation.

The distribution of spin density in the anion-radical of triphenylphosphine and its oxide were studied. The compounds were prepared by electrochemical reduction. For a more rigorous picture of delocalization of the unpaired electron, completely and partially deuterated Ph₃P and Ph₃PO were synthesized and studied. Dimethylformamide and acetonitrile solutions of the anion-radicals were studied at concentration of ca. 5·10⁻³ M, using epr spectroscopy.

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USSR

IL'YASOV, A. V., et al., Doklady Akademii Nauk SSSR, Vol 201, No 1, Nov-Dec 1971, pp 108-111

Based on preliminary results, it is concluded that, unlike compounds of elements of the second period, the electron structure of phosphorus anion-radicals cannot be described by a simple π -electron theory; the so-called d-model must be rejected. The concepts of completely delocalized molecular orbitals and multi-center bonds must be used, with allowance for all valence electrons.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

PUBLICATIONS

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MOSKALENKO, Yu. Ye., VAYNSHTEYN, G. B., and KAS'YAN, I. I.

Vnutricherepnoye Krovoobrashcheniye v Usloviyakh Peregruzok i Nevesomosti: (Intracranial Blood Circulation Under Conditions of Accelerations and Weightlessness), Moscow, "Meditsina," 1971, 280 pp

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Free Radicals

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UDC 541.13+541.515+542.941+661.718.1

IL'YASOV, A. V., KARGIN, Yu. M., LEVIN, Ya. A., MGROZOVA, MEL'NIKOV, B. V., VARINA, A. A., SOTNIKOVA, N. N., and GALEYEV, V. S., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, USSR Acad. of Sciences

"Electrochemically Generated Free Radicals. 6. The Reduction Mechanism of Certain Organophosphorus Compounds, and the Electron Paramagnetic Resonance Spectra of the Anion Radicals Formed"

Moscow, Izvestiya Akademii Nauk SSR, Seriya Khimicheskaya, No 4, 71, pp 770-776

Abstract: A series of organophosphorus compounds was studied in connection with their electrochemical reduction, using several methods. The electron paramagnetic method was applied in the case of electrochemically generated anion radicals of triphenylphosphine, its oxides, and the diethyl ester of β -styrylphosphosphonic acid.

Graphical data accompanying the paper include classical and commutated polarograms for the various compounds, and electron paramagnetic spectra for free radicals; numerical electrochemical data are given for nine organophosphorus compounds tested.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

Acc. NF00050454 Abstracting Service: CHEMICAL ABST. 5/76

Ref. Code:

95003b Determination of the true values of the parameters of Raman effect lines. III. Moreover 1: D.; Kovalev, I. F. (USSR). Opt. Spektrosk! 1970, 28(1), 69-71 (Riss). Possibility of calen. of the true line contours of the Raman scattering by means of the obsd. contours of the investigated and exciting lines was investigated when the latter were in different intervals of the "line shape scale," Generalized functions of the type of convolutions of nonneighboring scale intervals were used as approximating functions. As an example, the convolution of the slit and dispersion functions was discussed and the formulas for the calen. of true values of the integral intensities, intensities in the max., and half-widths were derived.

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UDC 620.191.193

MOROZOVA I. K., Engineer; GERASIMOV, V. V., Doctor of Technical Sciences; GROMOVA, A. I., Candidate of Technical Sciences; and ZHENIKHOVA, A. V., Engineer

"Dispersed Composition of Corrosion P oducts"

Moscow, Teploenergetika, No. 10, Oct 70, pp 72-74

Abstract: The purpose of this work was to study the composition of corrosion products found in water as a function of temperature, pH of the medium, and the oxygen content in it. All tests were conducted under static conditions in an autoclave which had an internal surface made of Khl810T steel or steel 20. Test time was 100 hours. Test solutions were neutralized deacrated water, NH $_{h}$ OH (pH = 10), and HNO $_{2}$ (pH = 3). After testing, the solution and deposits were removed with a pipet and the autoclave was washed three times with distilled water.

Results of these tests showed that of the particles measuring less than 0.1 micron onlt 1-2% retain their sizes in the case when the iron is in the ionic form and only 3-6% when

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

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MOROZOVA, I. K., et al., Teploenergetika, No 10, Oct 70, pp 72-74

the iron is in the colloidal form. The remaining iron is distributed as follows: from 40 to 80% remains in solution in the form of coarse particles (greater than 10 microns) and 15-33% can be observed in the form of deposits on samples of alloys of titanium, zirconium, and nickel. The remaining iron was deposited on the autoclave walls. The test showed that particles less than 0.1 micron is size, obtained at room temperature, increase in size to larger than 10 microns when placed in a medium with a temperature of 300 G.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

Acc. Nr: AP0042127 Abstracting Service: Ref. C. NUCLEAR SCI. ABST. 4-70/ ROC



12371 CORROSION AND ELECTROCHEMICAL BEHAVIOR OF CARBON STEELS UNDER CONDITIONS SIMILAR TO THOSE IN REACTOR OPERATION. Gerasimov. V. V.; Groenova, A. I.; Lupakov, I. S.; Morozova, I. K.; Bakulevski, A. A.; Belcus, V. N.; Kolesov, B. I. At Energ. (USSR); 28: 13-18(Jan 1970). (III Russian).

The corrosion and electrochemical behavior of carbon stells was studied in water at 300°C with oxygen concentrations equal to 0.02 to 40 and 1000 ppM. The samples of carbon species, irradiated in the reactor and non-irradiated samples were tested under static and dynamic conditions. The increase of oxygen concentration in water intensified corrosion of carbon steels. Irradiation reduced steel corrosion resistance during the initial test period. (auth)

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REEL/FRAME 19760028 18

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"



Entana logy

wc 576.895.4

DAVYDOV, G. S., and MOROZOVA, I. V., Institute of Zoology and Parasitology imeni Academician Taribyshty, Academy of Sciences Tadzhik SSR, and Central Asian Scientific Research Antiplague Institute

*Gamasid Mites of Western Tadzhikstan. I."

Dushanbe, Izvestiya Akademii Nauk Tadzhikskoy SSR, Otdeleniye Biologicheskikh Nauk, No 3(40), 1970. pp 72-78

Abstract: During 1952-1963 approximately 15,000 Gamasid mites were collected in Western Tadzhikstan from small mammals of 21 species. The Gamasid mites found on 5,174 animals examined and in 59 nests belonged to 50 species. The presence of 21 of these species in Tadshikstan was established for the first time. The 50 species of Gamasid mites are listed. On the basis of results obtained in this investigation and literature data, it was concluded that Gamasid mites of 73 species occur in Tadzhikstan.

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USSR

UDO 576.895.4

DAVYDOV, G. S., and MOROZOVA, I. V., Institute of Zoology and Parasitology imeni Academician Ye. N. Pavlovskiy, academy of Sciences Tadzhik SSR; Central Asian Antiplague Institute

"Gamasid Mites of Western Tadzhikstan. II"

Dushanbe, Izvestiya Akademii Nauk Tadzhikskoy SSR, Otdeleniya Biologicheskikh Nauk, 4(41), 1970, pp 52-63

Abstract: A study was made of the distribution of Gamasid mites with espect to species and numbers and changes in their numbers according to seasons on rodents in Western Tadzhikstan. Rodents included the rattlemouse, the white-toothed shrew (Crocidura), several species of suslik (Citellus), the small five-toed jerboa (Allactaga elater), the earth rat, the Turkestan rat, house and forest mice, several species of gerbil, and the mole-vole. Data on the distribution of Gamasid mite preying on rodents in various regions of Tadzhikstan are given in the form of tables. The greatest number of Gamasid species was found in the Vakhshskaya Valley (47 species) and in the mountain foothill and mountain regions of Northern Tadzhikstan (45 species). In the nountain foothill - mountain regions of South-Western Tadzhikstan and the Fergana Valley, 21 and 22-species, respectively, were found.

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UDC: 535.373.4:548.0

USSR

MOROZOVA, L. G. and FEOFILOV, P. P.

"Temperature Quenching of Uranium Luminescence in Scheelite Single Crystals"

Leningrad, Optika i Spektroskopiya, No 4, October 1973, pp 789-790

Abstract: This brief communication is based on an earlier paper in the same journal (A. M. Morozov, et al, 32, 1972, p 100) devoted to the luminescence spectra of six-valent uranium in Me^{II}Me^{VI}O₄: where Me^{II} is Ca, Sr, Ba; and Me is No, W, with the structure of scheelite. In the present communication the author describes experiments using the same specimens placed in a thermostated device permitting temperature changes from 77 to 5000K and excited by a mercury lemp through a light filter separating out 365 nm wavelength radintion. Given in the form of curves, the results of the experiment show that I the region of temperature quenching depends to an unusual extent on the MeII cation. A table of parameters for various types of crystal examined is given. The authors find a probable mechanism for the quenching of the luminescence.

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UDG 535.37:548.0

USSR

MOROZOV, A. M., MOROZOVA, L. G., FEOFILOV, P. P.

"Luminescence of Uranium in Scheelite-Structured Monocrystals"

Leningrad, Optika i Spektroskopiya, No 1, 1972, pp 100-110

Abstract: An investigation is made of activated uranium in monocrystals of molybdates and tungstenates of group II metals with the general formula, Me^IMe^{VI}O (Me^{II} = Ca, Sr, Ba; Me^{VI} = Mo, W) the general formula, Me^IMe^{VI}O (Me^{II} = Ca, Sr, Ba; Me^{VI} = Mo, W) with scheelite structures. In this investigation, the authors with scheelite structures, including helium levels, in which used very low temperatures, including helium levels, in which used very low temperatures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several unusually rare structures.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UNCLASSIFIED PROCESSING DATE--L8SEP70
TITLE--OPTICAL CONSTANTS, LUMINESCENCE, AND INDUCED RADIATION OF LANTHANUM /
NIOBATE SINGLE CRYSTALS ACTIVATED BY NEODYMIUM -UAUTHOR-(05)-BAKHSHIYEVA, G.F., KARAPETYAN, V.YE., MORDZOV, A.M., MOROZOVA,

COUNTRY OF INFO--USSR

SOURCE--OPT. SPEKTROSK. 1970, 28(1), 76-81

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--SINGLE CRYSTAL, OPTIC PROPERTY, THERMAL EFFECT, LUMINESCENCE, ANISOTROPY, LANTHANUM COMPOUND, NIOBATE, CRYSTAL STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1980/1315

STEP NO+-UR/0051/70/028/001/0076/0081

CIRC ACCESSION NO--APO049477

UNCLASSIFIED

UDG 620.191.193

MOROZOVA I. K., Engineer; GERASIMOV, V. V., Doctor of Technical Sciences; GROMOVA, A. I., Candidate of Technical Sciences; and ZHENIKHOVA, A. V., Engineer

"Dispersed Composition of Corresion P educts"

Moscow, Teploenergetika, No 10, Oct 70, pp 72-74

Abstract: The purpose of this work was to study the composition of corrosion products found in water as a function of temperature, pH of the medium, and the oxygen convent in it. All vests were conducted under static conditions in an nutriclave which had an internal surface made of Kh18107 steel or steel 20. Test time was 100 hours. Test solutions were neutralized deserated water, NH, OH (pH = 10), and HNO3 (pH = 3). After testing, the solution and deposits were removed with a pipet and the autoclave was washed three times with distilled water.

Results of these tests showed that of the particles measuring less than 0.1 micron polt 1-2% retain their sizes in the case when the iron is in the ionic form and only 3-6% when CHARLES OF THE PROPERTY OF THE

MOROZOVA, I. K., et al., Teploenergetika, No 10, Oct 70, pp 72-

the iron is in the colloidal form. The remaining iron is distributed as follows: from 40 to 80% remains in solution in the form of coarse particles (greater than 10 microns) and 15-33% can be observed in the form of deposits on samples of alloys of titanium, zirconium, and nickel. The remaining iron was deposited on the autoclave walls. The test showed that particles less than 0.1 micron is size, obtained at room temporaticles less than 0.1 micron is size, obtained at room temporaticles less than 0.1 micron is size, obtained at room temporaticles less than 0.1 micron is size, obtained at room temporaticles less than 0.1 micron is size, obtained at room temporaticles less than 0.1 micron is size, obtained at room temporaticles less than 0.1 micron is size, obtained at room temporaticles is size. perature, increase in size to larger than 10 microns when placed in a medium with a temperature of 300 C.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

Acc. Nr: AP0042127

Abstracting Service: Ref. Code: NUCLEAR SCI. ABST. 4-70/ FROOS



12371 CORROSION AND ELECTROCHEMICAL BELAVIOR OF CARBON STEELS UNDER CONDITIONS SIMILAR TO THOSE IN REACTOR OPERATION, Gerasimov, V. V., Gromoin, A. I.; Lupakov, I. S.; Morozova, I. K., Balmievskii, A. A.; Seinis, V. N.; Kolesov, B. I. R. Energ. (USSR); 28: 13-18(Jan 1970). (In Russian).

The corrosion and electrochemical behavior of carbon steels was studied in water at 500°C with oxygen concentrations equal to 0.02 to 40 and 1000 ppM. The samples of carbon steels, irradiated in the reactor and non-irradiated samples were tested under static and dynamic conditions. The increase of oxygen concentration in water intensified corrosion of carbon steels. Irradiation reduced steel corrosion resistance during the initial test period. (auth)

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UDC 621.039.553.36:620.193.47.4

CERASIMOV, V. V., GROMOVA, A. I., LUPAKOV, I. S., MCROZOVA, I. K., BAKULEVSKIY, A. A., BELOUS, V. N., and KCLESOV, B. I.

"Corrosion and Electrochemical Behavior of Carbon Steels Under Quasireactor Conditions"

Moscow, Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 13-18

Abstract: The article describes results of a study of the corrosion and electrochemical behavior of steels of the perlitic class in water at 300° C at various oxygen concentrations (0.02-40 and 1000 mg/kg) at pH = 7-10, as well as a study of the effect of reactor irradiation on the corrosion processes of perlitic steels. The corrosion and electrochemical tests were staged under static and dynamic conditions. The perlitic steels studied included St. 20 (C 0.17%; Cr 0.25%; Ni 0.25%; Mn 0.35%; Si 0.17%); 12KhM (C 0.12%; Cr 0.94%; Mn 0.59%; Si 0.3%; Mo 0.4%); and 16GMM (C 0.18%; Ni 1.41%; Mn 1.18%; Si 0.23%; Mo 0.26%). Specimens of stainless steel Khlshlot (C 0.08%; Cr 17*19%; Ni 9*11%; Mn 1.2%; Si 0.8%; Ti 0.6%) were comparison-tested.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

GERASIMOV, V. V., et al., Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 13-18

It was found that in demineralized water at 300° C an increase in the oxygen concentration from 0.02 to 40 mg/l increases the corrosion rate of perlitic steels, with pitting corrosion developing with a pit depth of up to 0.1 mm. In oxygen-containing water under static conditions a complex dependence of anodic process rate on potential is observed in steels of the perlitic class. In demineralized deaerated water an increase in the pH to 10 (by introducing ammonia) results in a decrease in the corrosion rate, with no development of pitting corrosion being observed. Irradiation reduces the corrosion resistance of the steels during the initial testing period. The corrosion rate under irradiation decreases with an increase in exposure time, and after 3500 hours of tests the corrosion rate for the perlitic steels is practically the same with or without irradiation.

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DAVYDOV, G. S., and MOROZOVA, I. V., Institute of Zoology and Parasitology imeni Academician (1987) Parisonskiy, Academy of Sciences Tadzhik SSR, and Central Asian Scientific Research Antiplague Institute

"Gamasid Mites of Western Tadzhikstan, I."

Dushanbe, Izvestiya Akademii Nauk Tadzhikskoy SSE, Otdeleniye Biologicheskikh Nauk, No 3(49), 1970. pp 72-78

Abstract: During 1952-1963 approximately 15,000 Gamasid mites were collected in Western Tadzhikstan from small mammals of 21 species. The Gamasid mites found on 5,174 animals examined and in 59 nests belonged to 50 species. The presence of 21 of these species in Tadshikstan was established for the first time. The 50 species of Gamasid mites are listed. On the basis of results obtained in this investigation and literature data, it was concluded that Gamasid mites of 73 species occur in Tadzhikstan.

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DAVYDOV, G. S., and MOROZOVA, I. V., Institute of Zoology and Parasitology imeni Academician Ye. N. Pavlovskiy, Academy of Sciences Tadzhik SSR; Central Asian Antiplague Institute

"Garasid Mites of Western Tadzhikstan. II"

Dushanbe, Izvestiya Akademii Nauk Tadzhikskoy SSR, Otdeleniya Biologicheskikh Nauk, 4(41), 1970, pp 52-63

Abstract: A study was made of the distribution of Garasid mites with espect to species and numbers and changes in their numbers according to seasons on rodents in Western Tadzhikstan. Rodents included the rattlemouse, the white-toothed shrew (Crocidura), several species of suslik (Citellus), the small five-toed jerboa (Allactoga elater), the earth rat, the Turkestan rat, house and forest mice, several species of gerbil, and the mole-vole. Data on the distribution of Garasid mite preying on rodents in various regions of Tadzhikstan are given in the form of tables. The greatest number of Garasid species was found in the Vakhshekaya Valley (47 species) and in the mountain foothill and mountain regions of Northern Tadzhikstan (45 species). In the nountain foothill - mountain regions of South-Western Tadzhikstan and the Fergana Valley, 21 and 22-species, respectively, were found.

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UDC: 535.373.4:548.0

MOROZOVA, L. G. and FEOFILOV, P. P.

"Temperature Quenching of Uranium Luminescence in Scheelite Single Crystals"

Leningrad, Optika i Spektroskopiya, No 4, October 1973, pp 789-790

Abstract: This brief communication is based on an earlier paper in the same journal (A. M. Morozov, et al, 32, 1972, p 100) devoted to the luminescence spectra of six-valent uranium in Me^{II}Me^{VI}O_L: where Me^{II} is Ca, Sr, Ba; and Me^{VI} is Mo, W, with the structure of scheelite. In the present communication the author describes experiments using the same specimens placed in a thermostated device permitting temperature changes from 77 to 500°K and excited by a mercury lamp through a light filter separating out 365 nm wavelength radiation. Given in the form of curves, the results of the experiment show that the region of temperature quenching depends to an unusual extent on the Me^{II} cation. A table of parameters for various types of crystal examined is given. The authors find a probable mechanism for the quenching of the luminescence.

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UDC 535.37:548.0

USSR

MOROZOV, A. M., MOROZOVA, I. G., FEOFILOV, P. P.

"Luminescence of Uranium in Scheelite-Structured Monderystals"

Leningrad, Optika i Spektroskopiya, No 1, 1972, pp 100-110

Abstract: An investigation is made of activated uranium in monocrystals of molybdates and tungstenates of group II metals with the general formula, Me^{II}Me^{VI}O (Me^{II} = Ca, Sr, Ba; Me^{VI} = Mo, W) with scheelite structures. In this investigation, the authors with scheelite structures, including helium levels, in which used very low temperatures, including helium levels, in which unusually rare structures were formed at the centers of several unusually rare structures were formed at the centers of several specimens. Growth of the crystals is described and the absorpspecimens. Growth of the crystals is described and the latter tion spectra of the crystals plotted. Examples of the latter tion spectra of the crystals plotted. Examples of the latter spectra of Me^{II}Me^{VI}O₄-U crystals, and an extensive table of the luminescence spectra of these crystals, obtained at a temperature of 4.2° K, is compiled.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--OPTICAL CONSTANTS, LUMINESCENCE, AND INDUCED RADIATION OF LANTHANUM /
NIOBATE SINGLE CRYSTALS ACTIVATED BY NEODYMIUM +UAUTHOR-(05)-BAKHSHIYEVA, G.F., KARAPETYAN, V.YE., MOROZOV, A.M., MOROZOVA,

COUNTRY OF INFO--USSR

SOURCE--OPT. SPEKTROSK. 1970, 28(1), 76-81

DATE PUBLISHED----70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--SINGLE CRYSTAL, OPTIC PROPERTY, THERMAL EFFECT, LUMINESCENCE, ANISOTROPY, LANTHANUM COMPOUND, NIOBATE, CRYSTAL STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1980/1315

STEP NO--UR/0051/70/028/001/0076/0081

CIRC ACCESSION NO--AP0049477

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

PROCESSING DATE--18SEP70 UNCLASSIFIED 029 CIRC ACCESSION NO--AP0049477 LANBO SUB4 SINGLE CRYSTALS DIAM. ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. 8-15, LENGTH 70 MM WERE ISOLATED FROM THE MELT AFTER HIGH TEMP. TREATMENT OF LANBO SUB4 IN INERT ATM. UNACTIVATED CRYSTALS AND CRYSTALS ACTIVATED WITH I MOLE PERCENT NO PRIMES POSITIVE WERE STUDIED. UNACTIVATED CRYSTALS ARE TRANSPARENT IN THE RANGE 0.27-6.5MU; THE LIGHT ABSORPTION IN THE RANGE 6.5-9.0 MU CORRESPONDS TO THE VIBRATIONAL FREQUENCIES OF NBO SUB4 TETRAHEDRONS. N WAS OBTAINED AT 5 WAVELENGTHS IN THE RANGE 435.8-656.3 MMU. STRONG BIREFRINGENCE WAS OBSD. ACTIVATION OF THE SINGLE CRYSTALS WITH NO PRIMES POSITIVE CAUSED STRONG ANISOTROPY OF THE CRYSTALS. LUMINESCENCE SPECTRA WERE RUN AT 77DEGREESK. THE LUMINESCENCE DURATION WAS 120 MUSEC AT ROOM TEMP.; IT DID NOT CHANGE ON HEATING OF THE ACTIVATED SINGLE CRYSTAL TO 250DEGREES. THREE AXIAL ELLIPSOIDS WERE CONSTRUCTED FOR THE SEP. LINES IN THE LUMINESCENCE SPECTRA OF LANBO SUB4 MINUS NO PRIMES POSITIVE SCANNED IN POLARIZED LIGHT. GENERATION OF FORCED RADIATION OCCURRED IN THE ACTIVATED SINGLE CRYSTALS AT A SINGLE FREQUENCY 1.0624 MU. 1.0622 MU OCCURRED ON HEATING OF THE CRYSTAL TO 300DEGREES.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

1/2 029 UNCLASSIFIED

PROCESSING DATE--18SEP70

TITLE--OPTICAL CONSTANTS, LUMINESCENCE, AND INDUCED RADIATION OF LANTHANUM NIOBATE SINGLE CRYSTALS ACTIVATED BY NEODYMIUM -U-

AUTHOR-(05)-BAKHSHIYEVA, G.F., KARAPETYAN, V.YE., MOROZOV, A.M., MOROZOVA,

COUNTRY OF INFO--USSR

SOURCE--OPT. SPEKTROSK. 1970, 28(1), 76-81

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--SINGLE CRYSTAL, OPTIC PROPERTY, THERMAL EFFECT, LUMINESCENCE, ANISOTROPY, LANTHANUM COMPOUND, NIOBATE, CRYSTAL STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1980/1315

STEP NO--UR/0051/70/028/001/0076/0081

CIRC ACCESSION NO--APOD49477

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

PROCESSING DATE--18SEP70 UNCLASSIFIED 029 ABSTRACT. LANBO SUB4 SINGLE CRYSTALS DIAM. 2/2 CIRC ACCESSION NO--APO049477 8-15, LENGTH 70 MM WERE ISOLATED FROM THE MELT AFTER HIGH TEMP. ABSTRACT/EXTRACT--(U) GP-0-TREATMENT OF LANBO SUB4 IN INERT ATM. UNACTIVATED CRYSTALS AND CRYSTALS ACTIVATED WITH 1 MOLE PERCENT ND PRIMES POSITIVE WERE STUDIED. UNACTIVATED CRYSTALS ARE TRANSPARENT IN THE RANGE 0.27-6.5MU; THE LIGHT ABSORPTION IN THE RANGE 6.5-9.0 MU CORRESPONDS TO THE VIBRATIONAL FREQUENCIES OF NBO SUB4 TETRAHEDRONS. N WAS DETAINED AT 5 WAVELENGTHS IN THE RANGE 435.8-656.3 MMU. STRONG BIREFRINGENCE WAS OBSD. ACTIVATION OF THE SINGLE CRYSTALS, WITH NO PRIMES POSITIVE CAUSED STRONG ANISOTROPY OF THE CRYSTALS. LUMINESCENCE SPECTRA HERE RUN AT 77DEGREESK. THE LUMINESCENCE DURATION WAS 120 MUSEC AT ROOM TEMP.; IT DID NOT CHANGE ON HEATING OF THE ACTIVATED SINGLE CRYSTAL TO 250DEGREES. THREE AXIAL ELLIPSOIDS WERE CONSTRUCTED FOR THE SEP. LINES IN THE LUMINESCENCE SPECTRA OF LANBO SUB4 MINUS ND PRIMES POSITIVE SCANNED IN POLARIZED LIGHT. GENERATION OF FORCED RADIATION OCCURRED IN THE ACTIVATED SINGLE CRYSTALS AT A SINGLE FREQUENCY, 1.0624 MU. SHIFT TO 1.0622 MU OCCURRED ON HEATING OF THE CRYSTAL TO 300 DEGREES.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UNCLASSIFIED PROCESSING DATE--300CT70
OXIDOANDROSTAN, 3 BETA, OL, 17, ONE ACETATES -UAUTHOR-(04)-SAMSONOVA, N.V., MOROZOVA, L.S., LURI, F.A., MAKSIMOV, V.I.

COUNTRY OF INFO--USSR

SOURCE--KHIM.-FARM. ZH. 1970, 4(2), 5-10

DATE PUBLISHED----- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CHEMICAL SYNTHESIS, ACETATE, CATALYST

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0490

STEP NO--UR/0450/70/004/002/0005/0010

CIRC ACCESSION NO--APOIZI164

UNCLASSIFIED

CIRC ACCESSION NO--APO121164

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. 1 WERE CONVERTED INTO II. THUS, 1
G I, 1.6 G PB(OAC) SUB4, AND 0.23-0.26 G IDDINE WAS REFLUXED IN 30 ML C
SUB6 H SUB6 WITH IRRADN. (100-500 W LAMP) 45-60 MIN TO GIVE A PRODUCT
188-190DEGREES IN IS LARGER THANIBOPERCENT YIELD. BEST YIELDS
(90PERCENT) WERE OBTAINED WHEN CCL SUB4 WAS USED INSTEAD OF C SUB6 H
SUB6. THE REACTION COULD BE DONE WITHOUT ANY IRRADIATION IN CCL SUB4
(RATIO I-CCL SUB4 EQUALS 1:100) THE YIELDS BEING TOPERCENT. WHEN
ALPHA, ALPHA PRIME, AZOBISISOBUTYRONITRILE WAS USED AS A CATALYST, YIELDS
OF II WERE TOPERCENT. FACILITY: VSES. NAUCH.-ISSLED.
KHIM.-FARM. INST. IM. DRDZHONIKIDZE, MOSCOW, USSR.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

USSR

UDC 616.988.75(A-2)-092:612.118.221.2

FROLOV, V. K., SOKHIN, A. A., SOTNIK, A. Ya., and NOROZOVA, I. I., Pozetskaya Colast Epidemiological Station, Medical Institute, and Donetskaya Colast Blood Transfusion Station, Donetsk

"A2 (Hong Kong) Influenza and the ABO and Rh Blood Groups"

Moscow, Voprosy Virusologii, No 6, 1972, pp 701-703

Abstract: A correlation was noted between ABO blood group and susceptibility to influenza among 2,289 patients with clinically diagnosed influenza and acute respiratory disease during the Jan/Mar 1970 A2 (Mong Kong) influenza epidemic in Donestskaya Colast. Fatients with blood groups O and AB were more susceptible to influenza than type A and B patients. A similar correlation was seen among 1,167 patients with serologically diagnosed influenza and among 72 influenza fatalities. Distribution of Rh factor was identical for patients and healthy individuals. Reasons for such correlation remain unknown.

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	· · · ·	The results of this paper	Pyrolysis of THC. It was found that the bas product of (a)(a), in the hellu 700°, C are etumes, ethylens and position of THC in the hydrogen of only molecular methans was as	[Article by N. H. Korenthuk, ye. Kalugaj Novosibirak, ili Simposit nitryykh Kristallov i Plonok, Rus At the present time a processoromy at the present time a processoromy at the use of organomet stchamism of the real decomposition of trimethy galliudecomposition of trimethy galliudecom	ALI-II' THEKNYT DECOMBOSILION ON	540B
	. 601	r permit a cosciusion to be dr	tography was used to determine sic components of the gaseous an flow in the temperature ranging the flow in the game temperature stablished.	the po Proteersanders to Proteersanders and Invitation of these compounds after are presented for the are presented in (PH) in hellus	OF TRIMETHIL CALLIUM IN INERT GAS AND HYDROGEN	
	•	tilms.	ne the products of a decomposition ange of 400 to be thermal decom-	Rosto I Stituma Poluprovod- 1972 p. 99 r obtaining film of A ^{III} BV nd bydrides. Therefore, the said in various 345 carriers from a study of the thermal and hydrogen flows.	CAS AND HYDROGEN	4

UDC 621.81.539.4

GUSTENIUS DE TUTO BENERALIS DE LA COMPANIO DE LA C

HEMIDOV, A. S., GORLOV, V. B. and MOROZOVA, I. P.

"An Investigation of Stresses on Models of a Tube Sheet Made of Optically Active Material"

Moscow, Tr. Mosk. aviats. in-ta (Transactions of the Moscow Aviation Institute), Vyp 245, 1972, pp 5-13 (from Referativnyy Zhurnal -- Mekhanika, No 4, 1973, Abstract No 4V1254 by V. I. Baulin)

Translation: Experiments on the determination of stress in models of the tube sheet of a shell-and-tube heat exchanger of the rigid type made of the optically active material EDG-M are considered. Hydrostatic loading was imitated on the model using a lead shot layer placed in asbestos paper. The axial loading towards the sides of the tube packet is simulated by weights suspended from cams, made of the same EDG-M material and glued to the holes of the tube sheet. Corresponding to the concrete scheme of loading of the tube sheet, certain weights, suspended through blocks, simulate the force action of tubes of the opposite sign.

The values of the hydrostatic loading and the axial forces from the tubes are determined by calculating the concrete heat-exchanger, introducing the corresponding coefficients of force and geometric simulation. Calculations of 1/2

- 93 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

DEMIDOV, A. S., et al., Tr. Mosk. aviats. in-ta, Vyp 245, 1972, pp 5-13

tube sheet models with already known loading are conducted analogously. A comparison of the stresses obtained by calculated and experimental means is conducted. It is mentioned that the character of the calculated determination of stresses from bending moment as a whole corresponds to the experimental data; because of concentration the stresses near the apertures are maximal. The stresses near the apertures exceed by 15-30% the mean experimental stresses.

2/2

USSR

UDC 615.371:576.851.71].015.4:616.981.711-097.5

NIKOL'SKAYA, V. N., IGNATOVICH, V. F., and MOROZOVA, M. Yu., Institute of Epidemiology and Microbiology imeni Gamaleya, USSR Academy of Medical Sciences, Moscow

"A Possibility of Using Serological Methods for Additional Evaluation of the Intensity of Typhus Immunity in Guinea Pigs"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 5, May 71, pp 137-141

Abstract: A vaccination against typhus which produces clinical immunity does not necessarily produce serological immunity. In this study performed on a large number of guinea pigs, it was shown that some vaccines produce a high titer of complement fixing antibodies which — upon subsequent inoculation with typhus bacteria — either falls or does not change, or rises less than two-fold. Other vaccines, though they also confer clinical immunity, give rise to a small antibody titer. After subsequent infection with the typhus pathogen, the titer increases more than four-fold, which indicates that rickettsiae — though they do not produce clinical signs of disease — proliferate in the body until the concentration of antibodies rises to an effective

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

NIKOL'SKAYA, V. N., et al. Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 5, May 71, pp 137-141

level. It is concluded that a double determination of antibody titer in experimental animals -- once after vaccination and a second time after infection -- is a good method of evaluating the strength of immunity induced by a typhus vaccine.

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- 42 -

UDC 539.216.2:538.221

PALATNIK, L. S., LUKASHENKO, L. I., ZOLOTNITSKIY, YU. V., and MOROZOVA, N. I., Kharkov Polytechnic Institute imeni V.I. Lenin

"Domain Structure of Permalloy Films With Perpendicular Anisotropy"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 35, No 5, 1973, pp 941-946

Abstract: Using the powder pattern on two opposite sides of permalloy films, the volumetric distribution model of domain boundaries was derived, according to which the domains form plane-parallel layers at some distance from the permalloy film surface (thickness of films was 100 A(n). Domains of the reverse magnetization in a shape of cones were visible inside the principal domains, immediately below the film surface. They were (0.15-0.20) h high, with a base diameter equal to approximately one half of the width of a principal domain. Rows of the conical domains at two opposite sides of a film were shifted by one half of the period with respect to each other. This model agrees in principle with the one suggested before by the authors. However, domains of closure were not detected in the film layer next to the surface, and no domains were found with a gradually decreasing diameter. Very often wedges were visible within the cross-section of a film. Walls of the principal domains deviated from normal in the next-to-surface layer at a depth of the

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PALATNIK, L. S., et al., Fizika Metallov i Metallovedeniye, Vol 35, No 5, 1973, pp 941-946

conical domains. These walls were not revealed on the film surface by the powder pattern method and their distribution was not established. The perthat of cobalt and other uniaxial single crystals.

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UNCLASSIFIED PROCESSING DATE--13HOV70
TITLE--REDUCTION OF POLYATOMIC MOLECULE ELECTRON ENERGY OPERATOR MATRIXES
WITH REFERENCE TO SYMMETRY -UAUTHOR-(02)-MOROZOV, V.P., MOROZOVA, N.K.

COUNTRY OF INFO--USSR

SOURCE--DOPOV. AKAD. NAUK UKR. RSR, SER. B 1970, 32(2), 155-9

DATE PUBLISHED ---- 70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS--MOLECULAR STRUCTURE, ELECTRON ENERGY LEVEL, HAMILTONIAN, MATRIX FUNCTION, MATHEMATIC OPERATOR

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/1643

STEP NO--UR/0442/70/032/002/0155/0159

CIRC ACCESSION NO--ATO133548

UNCLASSIFIED.

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	UNCLASSIFIED		

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WC 541.69+542.91+547.631.4

GAMBURYAN, A. A., BABIYAN, N. A., MOROZOVA, N. M., AKOPYAN, N. YE., CHAUSHYAN, K. M., and MNDZHOYAN, L. O., Institute of Fine Organic Chemistry imeni A. L. Mndzhoyan, Academy of Sciences Armenian SSR, Yerevan

"Studies in the Field of Amincethers. V. Dialkylaminoalkyl Ethers of Benzhydrol and o-, m-, and p-Benzydrols - their Synthesis and Neuropharmacological Activity"

Yerevan, Armyanskiy Khimicheskiy Zhurnal, Vol 24, No 10, 1971, pp 900-908

Abstract: By the rearrangement of quaternary salts formed by aminoalcohols with benzhydryl chlorides, the aminoethers RC6H4-CH(Ph)-CCnH2n, NR' 2 were prepared, where R = H or o-, m-, p-Me; R' = Me, Et; C_nH_{2n} = (CH₂)₂, (CH₂)₃, (CH2)4, CH(Me)CH2CH2, CH(Me)CH(Me), CH2C(Ne)2CH2. Physiological tests carried out with the aminoethers upon their conversion to hydrochlorides showed that transition from beta-dialkylaminosthyl others to propyl sthers increased the antispassodic activity. This activity again decreased on transition to dialkylaminobutyl ethers. Some of the compounds that has been prepared exhibited an antihisteminic activity in tests on the isolated intestine of guinea pigs. 1/2 - 63 -

GAMBURYAN, A. A., et al., Armyanskiy Khimicheskiy Zhurnal, Vol 24, No 10, 1971, pp 900-908

The compounds synthesized together with their physical properties and the melting points of hydrochlorides or iodomethylates are listed in tables.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UDC: 669.27:548.55:539.579.4

USSR

CHUPYATOVA, L. P., KHUDYUMOV, V. G., MOROZOVA, N. P., PIKUNOV, M. V., SHISH-KOV, V. V., State Scientific Research and Design Institute of the Rare Metals Industry, Institute of General Metallurgy and Physics of Metals of the Central Scientific Research Institute of Ferrous Metallurgy imeni I. I. Bardin, Moscow

"Pseudosymmetry of {110} Slip in Tungsten Single Crystals"

Moscow, Doklady Akademii Nauk SSSR, Vol 213, No 2, 11 Nov 73, pp 325-328

Abstract: A characteristic feature of the slip geometry and stress-strain curves of tungsten crystals is their strong orientation dependence: the yield point of crystals with the tension axis oriented close to [001] is considerably lower than in crystals oriented close to angle [011] of the standard triangle. This effect is usually attributed to the asymmetry of shear in plane {112}, which is typical of metals with a bcc lattice. However, research has now shown that in crystals of low-purity tungsten {112} slip is suppressed. Nevertheless the difference in yield points for

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CHUPYATOVA, L. P. et al., Doklady Akademii Nauk SSSR, Vol 213, No 2, 11 Nov 73, pp 325-328

crystals of the indicated orientations remains. In this paper the authors examine experimental data obtained on "dirty" single crystals of tungsten, and discuss the effect of "pseudoasymmetry" observed for {110} slip in such crystals. Tentative hypotheses are proposed to explain the observed effect.

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USSR

ASHURLY, Z. I., BABAYAN, V. G., YEMEL YAHOV, Yu. M., MCROZOVA, N. P., FEDOTOVA, T. A.

"Effect of the Frequency on the Ignition Voltage in an Ozonizer"

Moscow, Khimiya i Fizika Nizkotemperaturnoy Plazmy, Moscow University Press, 1971, pp 121-125

Abstract: The authors investigate the ignition voltage as a function of frequency in an ozonizer with a 3 mm discharge gap at frequencies of 50, 500, 1000, 2000, and 3000 Hz. The reactor was a flat ozonizer of special design which fed the gas into the discharge zone of the ozonizer. The dielectric barriers were glass plates ground on both sides 1 mm thick and 100 mm in diameter with plexiglass rings glued to the edges to prevent breakdown on the glass surface. Ground aluminum electrodes 70 mm in diameter were applied to the glass plates. It was found that the ignition voltage decreases from 6900 to 5300 volts when the frequency increases from 50 to 3000 Hz. The experimental results agree satisfactorily with theoretical calculations. Two figures, one table, bibliography of ten titles.

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- 33 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

USSR

UDC: 621.372.41.01-501.22

KOVZAN, A. A., MOROZOVA, R. A.

"Analysis of Type K Reactive Filters Loaded by a Fixed Resistance"

Tr. Mosk. aviats. in-ta (Works of the Moscow Aviation Institute), 1970, vyp. 220, pp 129-135 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5Al07)

Translation: A condition is derived for signal transmission through a type K reactive iteration filter with Chebyshev characteristic of the insertion loss in the passband. Characteristic functions are found for a symmetric and an asymmetric filter. Three illustrations, bibliography of four titles. N. S.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"



621.3.049.75:774

LAVRISHCHEV, V. P., VOZHENIN, I. N., KANDYBA, P. Ye., MOROZOVA, R. A., FUNENKO, P. A.

"A Method of Making Microcircuits"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyve Obraztsy, Tovarnyve Znaki, No 18, 1970. Author's Certificate No 271598, filed 6 May 08, p 41

Abstract: This author's certificate introduces a method of making microcircuits based on repeated selective chemical etching. As a distinguishing feature of the patent, the procedure is designed to provide a broad range of resistor values in a single microcircuit and to simplify manufacturing technology. Resistive layers with various resistivities are applied in sequence to the substrate in order of decreasing resistivity, and the technological layer is used for making low-value resistors.

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UDC: 612.766.2

USSR

KOVALENKO, Ye. A., POPKOV, V. L., KONDRATIYEV, Yu. I., MAJLYAN, E.S., CALUSHKO, Yu. S., PROKHONCHUKOV, A. A., KAZARYAN, V. A., MOROZOVA, R. S., SEROVA, L. V., POTAPOV, A. N., ROMANOV, V. S., and PISHCHIK, V. B.

"Shifts in the Functions of the Organism During Prolonged Hypolinesia"

Moscow, Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, Vol 14, No 6, Nov/Dec 70, pp 3-9

Abstract: Rats kept immobilized for up to 170 days in special cages showed an increase in general gas exchange and rate of oxygen utilization in the muscles, and a slowing of the rate of tissue metabolism in the liver and myocardium. The level of phosphotylation in the myocardium and, to some extent, in the skeletal muscles and liver dropped. Prolonged hypokinesia also stunted the animals' growth, pervented them from gaining weight, and in some cases caused them to lose weight. Besides disturbing mineral and protein metabolism, immobilization resulted in exhaustion of the hypothalamus - pituitary - adrenal cortex system.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

PROCESSING DATE--- 300CTTO UNCLASSIFIED TITLE--HYDROCARBON COMPOSITION OF PETROLEUM FROM THE YUZHNO-IGLATANSKIT

DEPOSIT IN THE TURKMEN SSR -U-

AUTHOR-104)-GUREVICH, M.G., KOLESNIKOVA, L.P., MOROZOVA, S.F.,

SAMOZVANTSEVA, M.S. CCUNTRY OF INFO-USSR

SCURCE--GAZOV. DELO 1970, (1), 30-2

DATE PUBLISHED ---- 70

SUBJECT AREAS-EARTH SCIENCES AND OCEANOGRAPHY, MATERIALS

TOPIC TAGS-PETROLEUM DEPOSIT, CHEMICAL COMPOSITION, ARCHATIC HYDROCARBON, CRUDE DIL. GEOGRAPHIC LOCATION, CHROMATOGRAPHIC ANALYSIS

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0435

STEP NO-UR/0508/70/000/001/0030/0032

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CIRC ACCESSION NO-APO129660

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

PROCESSING DATE--30UCTTC UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. PETROLEUM FROM JURASSIC DOLOMITE CIRC ACCESSION NO--APO129660 SEAMS AT 3500 M IN THIS DEPOSIT YEILDED ON SEPN. BY CAPILLARY CHROMATOG. 11 AND 27PERCENT OF FRACTIONS B. LESS THAN OR EQUALS TO 125DEGREES (A) AND LESS THAN OR EQUAL TO 200DEGREES (B), RESP. IN A WERE DETD. THE INDIVIDUAL C SUB4-8 PARAFFINIC AND C SUB5-9 NAPHTHENIC HYDROCARBONS COMPRISING 75 AND 15PERCENT, RESP., OF IT AND 8.29 AND 1.71PERCENT, RESP., OF THE PETROLEUM. IN 8 WERE DETD. THE INDIVIDUAL C SUBG-11 ARUMATIC HYDROCARBONS CUMPRISING LOOPERCENT OF IT AND 3.73PERCENT OF THE PETROLEUM. N. ALKANE CONTENT ROSE FROM 54PERCENT IN C SUB5 . TO 71PERCENT IN C SUBB, ALKANES. THE N-150 RATIO WAS 1.86 FOR THE ALKANES (2.2 PERCENT C SUB4, 14.7 PERCENT C SUB5, 18,6 PERCENT C SUB6, 20.8 PERCENT C SUBT. 26. SPERCENT C SUBBI, AND THE CYCLOHEXANES CYCLOPENTANES HYDROCARBON RATIO WAS 1.41:1 FOR THE NAPHTHENES. C SUB6. C SUB7, AND C SUBS COMPOS. CUNPRISED 5.67, 22.16, AND 33.12PERCENT, RESP., OF THE FACILITY: MINKHOP IM. GUBKINA, MOSCOW, AROMATIC HYDRUCARBONS. USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

Psychiatry

UDC 616.3:313.13(47)

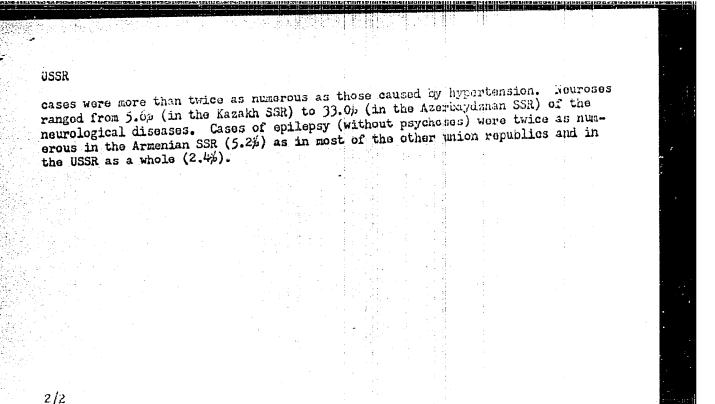
MOROZOVA. T. G., and LUKACHER, G. Ya., Main Administration for Therapeutic and Prophylactic Care, Ministry of Health USSR, and Central Schentific Research Institute of Forensic Psychiatry imoni Serbskiy Ministry of Realth USSR, Moscow

"Structure of Neurological Morbidity in the USSR"

Moscow, Zhurnal Nevropatologii i Psikhiatrii imeni S. S. Korsakov, Vol 70, No 7. 1970, pp 1060-1066

Abstract: An analysis is presented of the incidence of neurological diseases in the USSR, based on reports of visits to doctors, clinical cases, and hospitalizations for the USSR as a whole and for the union republics, oblasts, krays and autonomous republics of the RSFSR and the cities of Moscow and Leningrad for 1964 and 1965. According to these data, 3.49% of persons 14 years clk or older suffered from neurological diseases in 1965. For the USSR as a whole diseases of the peripheral nervous system were most common (48%), followed by neurovascular disorders (18.4%), neuroses (18.2%), and others CIS diseases (12.9%). Diseases of the peripheral nervous system were also highest in frequency in each of the union republics. In all of the union republics, disorders caused by atherosclerosis predominated among patients suffering from vascular dispases of the CNS. Such

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UNCLASSIFIED PROCESSING DATE--160CT70

1/2 017

TITLE--INVESTIGATION OF ACTIVE AND REPRESSED CHROMATIN IN BIRD LIVER AND

ERYTHROCYTE NUCLEI -U-AUTHOR-(03)-SHABALINE, A.T., MOROZOVA, T.M., SALGANIK, R.I.

COUNTRY OF INFO--USSR

SOURCE--MOLEKULYARNAYA BIOLOGIYA, 1970, VOL 4, NR 3, PP 411-413

DATE PUBLISHED-----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BIRD, LIVER, CHROMATIN, ERYTHROCYTE, RNA, CATALASE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0165

STEP NO--UR/0463/70/004/003/0411/0413

CIRC ACCESSION NO--APO120865

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--APO120865 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE ACTIVE REPRESSED CHROMATIN RATIO IN THE NUCLEI OF ERTHROCYTES AND LIVER CELLS OF BIRDS (GALLUS DOMESTICUS) WAS STUDIED. THE AVERAGE CHROMATIN CONTENT WAS ESTABLISHED TO BE 0.1-0.3PERCENT IN ERYTHROCYTES AND 26.3PERCENT IN LIVER. THE HIGH RNA CONTENT AND THE CONSIDERABLE INTENSITY OF ITS SYNTHESIS IN LIVER CHROMATIN, AS COMPARED TO ERYTHROCYTE CHROMATIN, CONFIRM THE CONCEPT ABOUT CONSIDERABLE REPRESSEUNESS OF ERYTHROCYTE GENOME. THE INTENSITY OF RNA SYNTHESIS AND ITS HIGH CONTENT IN THE REPRESSED CHROMATIN OF ERYTHROCYTES IS MUCH LOWER THAN IN THAT OF LIVER CELLS: THE DIFFERENCES IN THE ACTIVE CHROMATIN ARE LESS DRASTIC. IT WAS SHOWN THAT IN LIVER CELL NUCLEI OF BIRDS OF A STRAIN WITH LOW ERYTHROCYTE CATALASA ACTIVITY, THE ACTIV CHROMATIN CONTENT IS LOWER THAN IN LIVER CELL NUCLEI OF BIRDS FACILITY: INSTITUTE OF WITH HIGH ERYTHROCYTE CATALASA ACTIVITY. CYTOLOGY AND GENETICS, SIBERIAN BRANCH OF ACADEMY OF SCIENCES, USSR, NOVOSIBIRSK.

UNCLASSIFIED

UDC 621.791.754.053.001.5:621.3.014.3:539.4:669.14.018.44

SLAVIN, G. A., Candidate of Technical Sciences, MASLOVA, N. D., Engineer, and USSR MOROZOVA, T. V., Engineer

"Study of the Relationship between Technological Strength and Crystallization during Pulsed Arc Welding of Heat-Resistant Alloys with Nonconsumable Klectrode"

Moscow, Svarochnoye Proizvodstvo, No 6, 1971, pp 17-19

Abstract: Results are presented from an experimental study of the relationship of the welding mode to the nature of crystallization of the bath. The experiments were performed using specimens of heat-resistant austenitic steels and alloys, welded by pulsed arc welding with stepped movement of the electrode during pulse pauses. The relationship of the crystallization process to the structure and technological strength of the metal of the seam is demonstrated. A technological parameter -- the radius of the tail portion of the initial crystallization front -- is suggested, characterizing the relationship of the crystallization process to the structure and technological strength. The influence of welding conditions on the radius of this tail portion is studied. The technological possibilities for adjustment of the structure and properties of the seam during pulsed are welding are demonstrated. - 62 -

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CIA-RDP86-00513R002202120004-8" APPROVED FOR RELEASE: 07/20/2001

MOROZOVA

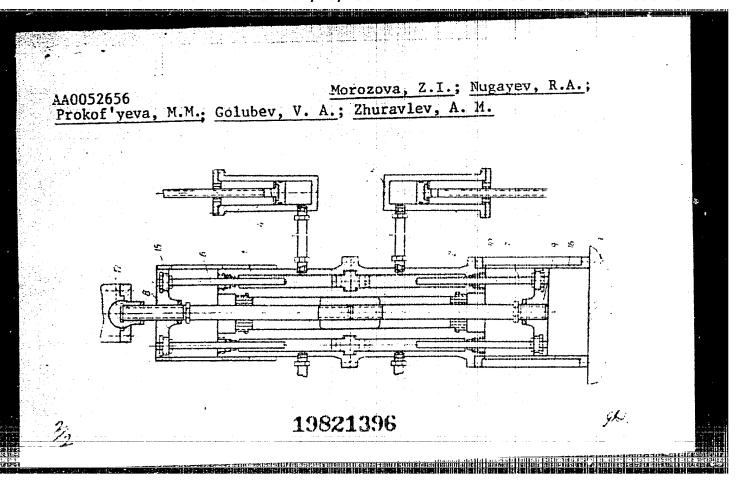
IIR 0482

AA0052656

Soviet Inventions Illustrated, Section III Mechanical and General, Derwent,

TWO-SIDED HYDRAULIC DAMPER consists of two parts; 1 and 2 bolted together and 244817 mounted on base 3. It is filled with working medium under atmospheric pressure and connected by pipelines with additional chambers 4 and 5. The body contains a number of chambers with pistons 6 and 7 connected between themselves by crosspieces 8 and 9 which in turn are rigidly connected to rod 10. All the chambers are interconnected and each contains free piston which divides two media (air and fluid). The air medium communicates with the atmosphere through the non-return valve. Crosspieces 8 and 9 are connected to suitable guides I5 and 16. The pressure is transmitted to pistons 6 and 7 through the flange, thrust ball 17, rod 10 and crosspinces 8 and 9. 1 2.68. as 1214193/25-28. V.A.GOLUBEV et al. (9.10 69.) Bul.18/28.5.69. Class 47a. Int.Cl. F16f.

19821395



Miscellaneous

USSR

UDC 669.7/.8.051

MOROZOVA. Z. Y.

"Operating Experience of ONTI (Department of Scientific and Technical Information) of VAMI (All-Union Institute of Aluminum and Magnesium)"

V. sb. Nauchno-tekhn. inform. v tsvetn. metallurgii (Scientific and Technical Information in Nonferrous Netallurgy -- Collection of Works), Hoscow, 1970, pp 50-52 (from RZh-Netallurgiya, No 3, Mar 71, Abstract No 3 G138 by S. KRIVONOSOVA)

Translation: The Department of Scientific and Technical Information in addition to information work within the institute performs information reference work, coordinates and supervises the activity of information services of enterprises of Glavalyuminiy (Main Administration of the Aluminum Industry), and publishes "Novosti Tekhnicheskoy Literatury" (News of Technical Literature) in 33 series. Since 1970 it has been published in the form of bibliographic cards. Every year the department prepares analytical surveys of the Soviet alumina, aluminum, and magnesium industry, as well as surveys on special-research questions in industry. Surveys summarizing the experience of the aluminum industry in France, the United States, and Italy are published.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

UNCLASSIFIED PROCESSING DATE--- 300CT70 016 1/2

TITLE-DETERMINATION OF SEROTONIN IN GASTRIC JUICE BY A FLUOROMETRIC

METHOD -U-

AUTHOR-(03)-NOROZOVETSKIY, O.V., GROKHOVSKIY, L.P., OSTROUKHOV, V.D.

CCUNTRY OF INFO-USSR

SOURCE-LAB. DELO 1970, (3), 152-4

DATE PUBLISHED 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-SEROTONIN. GASTROINTESTINAL SYSTEM. FLUOROMETER. DIGESTIVE SYSTEM

CENTROL MARKING-NO RESTRICTIONS

DUCUMENT CLASS-UNCLASSIFTED PROXY REEL/FRAME-3001/1797

STEP NO--UR/9099/T0/000/000/0152/0154

CIRC ACCESSION NO-AP0127211

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120004-8"

CIRC ACCESSION NO-APO127211 ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. SEROTUNIN WAS EXTD. FROM GASTRIC JUICE WITH BUTANOL AND DETD. FLUDROMETRICALLY AFTER A 2ND EXTN. WITH HEPTANE WITH 0.1 N HCL IN THE PRESENCE OF 3N HCL. LENINGRAD. GASTROENTEROL. LAB., LENINGRAD, USSR.	2/2	016	A D C						PROCESSING DATE300CT70				
	CIRC ACC ABSTRAC JUICE	CESSION T/EXTRAC WITH B	NO-APC CT(U) UTANOL /	GP-O- AND DET	ABSII D. FLU THE PI	JUKUME RESENC	E OF	3 N H	CL.	EXTE L A 2N	FROM FACI	GASTRIC L. WITH LLITY:	
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USSR

UDC 535.373.2

YERMOLAYEV, V. L., KAZANSKAYA, N. A., MOSHTISKAYA, A. V. KHERUZE, Yu. I.

"Velocity Constants of Intramolecular Energy Transfer in Complex Ions of Rare-Earth Metals With Aromatic Acids"

Leningrad, Optika i Spektroskopiya, No 1, 1972, pp 82-85

Abstract: This article is subtitled "II, Effect of Introducing Insulating Methylene Groups." In the first part of the article, published in the same journal named above (vol 28, 1970, p 1150), the authors determined the velocity constants of the intramolecular energy transfer from the organic part to the rare-earth ion for a large number of complexes of Tb3+, Eu3+, Sm3+, and Dy3+, with the derivatives of benzoic acid, and found that the energy transfer was the result of exchange-resonance interactions. The present, second part of the paper investigates the effect of the introduction of one or two methylene groups (CH2) between the aromatic group and the carboxyl group on the velocity constant of energy transfer in complex rare-earth ions with aromatic acids.

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YERMOLAYEV, V. L. et al, Optika i Spektroskopiya, No 1, 1972, pp 82-85

A table of the measured velocity constants is given for various types of acids and rare-earth complexes, and it is found that an exchange-resonance mechanism is involved here as well.

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upc 616.981.553-092.9-07:616.74-073

MIKHAYLOV, V. V. and MORRISON, V. V., Saratov Medical Institute

"Mechanism of Change in Polarization of Striated Muscle Fibers in Experimental Botulism and After Denervation"

Moscow, Byulleten' Eksperimental'noy Biologii i Meditsiny, No 1, 1973, pp 25-30

Abstract: Injection of rats and frogs with botulin produced general paralysis and a progressive decrease membrane potential and in potassium, sodium, and epinephrine with a simultaneous increase in norepinephrine. Local botulism had the same effects but not until 2 to 3 days after the enset of paralysis. In denervated rat muscle, membrane potential decreased and the potassium level dropped immediately and some time after the nerve was transected, but the decreases were less pronounced than in the same muscle poisoned with botulin. However, the sodium concentration did not change immediately after denervation and, in fact, it increased at a later period. Epinephrine decreased less in denervated muscle than in poisoned muscle and the epinephrine concentration remained normal. The differences between the effects of botulism and denervation on the polarization of muscle fibers, catecholamines and electrolytes in skeletal muscles are attributed to the fact that botulism inhibits rainly the activity of the tetanic neuromuscular apparatus but preserves that of the tonic 1/2

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MIKHAYLOV, V. V. and MORRISON, V. V., Byulleten' Eksperimental'noy Biologii i Meditsiny, No 1, 1973, pp 25-30

fibers, whereas denervation completely blocks the trophic influence of the phasic and tonic nerve fibers on the effectors.

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USSR

MOSESYAN, K. M.

"Based and Strongly Based Graphs"

Dok1. AN ArmSSR [Works of Academy of Sciences, ArmSSR], 1972, 55, No 2, pp 83-86 (Translated from Referativnyy Zhurnal - Kibernetika, No 8, 1973, Abstract No 8 V333 by V. Titov)

Translation: A nonoriented graph, which can be oriented so that it becomes a base graph of a certain oriented graph (a partially ordered graph) is called a based (or strongly based) graph, while the corresponding orientation is called a basing (strongly basing) orientation. In the monograph of Ore (RZHMat, 1968, 11V265 K), the following problems are stated: describe the class of based (Chapter 8, Section 4, Problem 1*) and strongly based (Chapter 9, Section 1) graphs.

The subgraph of a graph is called saturated if it is based and with any basing orientation is converted to a bicoupled (for any points a and b there is a path from a to b) oriented graph. A graph contains a saturated subgraph when and only when it contains triangles or pairs of points connected by two lines.

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USSR

MOSESYAN, K. M., Dokl. AN ArmSSR, 1972, 55, No 2, pp 83-86

Theorem. For a graph to be a based graph, it is necessary and sufficient that after extension (removal of lines and identification of points) of all maximally saturated subgraphs, a strongly based graph is produced.

Theorem. If a graph which is not a chain of length 2 has a path of length p with any strongly basing orientation, there are at least 2(p+1) different strongly basing orientations.

Result. For a strongly based graph L, which is not a line, there are at least $2\gamma(L)$ different strongly basing orientations, where $\gamma(L)$ is the chromatic number of graph L.

See also RZHMat, 1972, 10V356; 1973, 1V524, 5V468.

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621.318.435.3 UDC: USSR

GORYACHEV, N. P., KOBLENTS, Ya. G., MORSHAKOV V A, RAEKIN, L. I., EPSHTEYN, B. Sh., YAKOVENKO, D. A.

"A Noncontact, Magnetically Controlled Diode"

V sb. Novyve beskontaktn. elektron. ustroystva. Ch. 1 (New Noncontact Electronic Devices -- collection of works. Part 1), Moscow, 1970, pp 26-31 (from RZh-Aytomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 11, Nov 70, Abstract No 11A26)

Translation: The authors present the characteristics and describe some designs of ferrods whose principle of operation is analogous to that of a transformer with magnetization. A closed ferrod on a frame core made up of two L-shaped plates with a nonferromagnetic gap has low scatter of the output characteristics and high sensitivity. A ferrod designed on the basis of using a permanent magnet has inverse characteristics. A device with similar characteristics is a magnetically controlled diode designed around a standard ferrite bead with rectangular hysteresis loop located in the opening of a metallic magnetic circuit. Six illustrations, bibliography of four titles. Yu. Kh.

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USSR

UDC 632.954

MORSHCHATSKTY, A. A., Genetic Experimental Station, All Union Experimental Corn Institute

"The Effect of Chlorocholine Chloride on the Infection of Wheat With Root Rot"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 10, No 7 (105), 1972, pp 40-41

Abstract: The effect of chlorocholine chloride (CCC) on the infection of wheat with root rot was studied in central steppe regions. CCC lowered the infection rate slightly when applied in the early stages of norphogenesis. Later applications resulted in even greater infection of the treated plants as compared to the controls. Special microbiological studies showed that the following fungi were the active pathogens: Fusarium, Helminthosporium sativum P.K.B., and Alternaria Tennis Nees. Evidently CCC is ineffective against these pathogens.

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UDC 632.4:633.1(47+57)

VETROV, YU. F., KORSHUNOVA, A. F., MORSHCHATSKIY, A. A., KHOKHRYAKOV, M. K., and CHULKINA, V. A., All-Union Institute of Plant Protection, Leningrad, Irkutsk Agricultural Institute, All-Union Scientific Research Institute of Corn, Dnepropetrovsk, Altai Mountain Agricultural Experimental Station

"Root Rot of Grain in the USSR"

Leningrad, Mikologiya i Fitopatologiya, Vol 5, No 2, 1971, pp 148-155

Abstract: This is a comprehensive literature review of Soviet work in the field of grain root rot. During the last ten years, knowledge about root rot in wheat and other cereals has gradually increased. More than 55 works on this subject were published or submitted for publication in the USSR. Root rot occurs in zones of insufficient or unstable humidity. In the Irkutsk region 12.2-42.3%, and in some cases as much as 61.3-67.3% of the spring wheat is annually infected with root rot, whereas in the Sazatov neglon, the losses are 0.5-4.0% and, in extreme cases, 7.0-10.0%. Losses in other areas of the Soviet Union are enumerated, together with the appropriate references. Helminthosporium sativum and Fusarium avenaceum were isolated in Eastern 1/2

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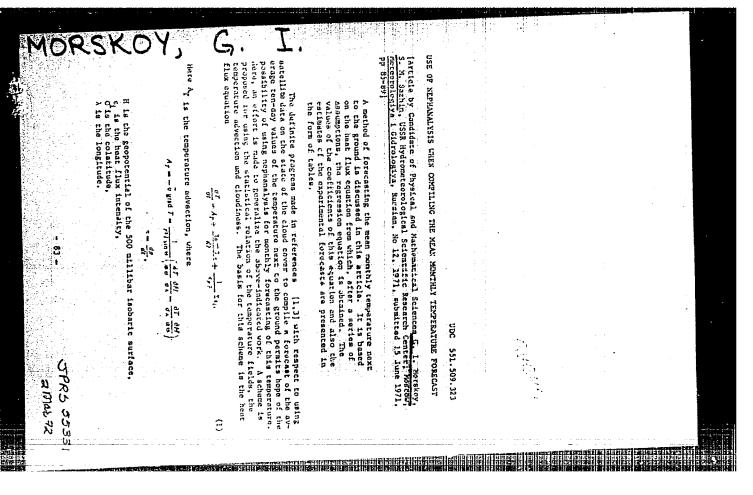
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VETROV, YU. F., et al., Mikologiya 1 Fitopatologiya, Vol 5, No 2, 1971, pp 148-155

Siberia, as well as in the central steppes of the Ukrains, on many wild and cultivated grains, and Ophiobolus graminis, which attacks many grain cereals and is found also on corn root. O. graminis can survive in the soil for more than 10 years.

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USSR

UDC 378.121

AGEYEV, D. V., GLEBOVICH, G. V., LEZIN, YU. S., MALANOV, V. V., MORUGIN L. A., SMORGONSKIY, V. YA.

"Gor'kiy Polytechnic Institute"

Kiev, Izvestiva vysshikh uchebnykh zavedeniy-Radioelektronika, Vol XIV, No 8, 1971, pp 954-960

Abstract: A review of the scientific research work performed by the radio engineering department of Gor'kiy Polytechnic Institute is presented. Abstracts and bibliographic listings of many of the papers published by members of the radio engineering faculty are presented. The fields of study covered include improving the noise immunity of radio technical systems, the theory of pulseduration modulation and pulse amplification of low-frequency electrical oscillations, improvement of the speed of pulse devices, automatic phase control and wave guide theory, and utilization of the research results in the training process. Specific lecture courses at the university in which the scientific research papers are used are listed.

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USSR

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MORYAKIN, B. A.

"Algorithm for Filtration of Monstationary Random Signals in Correlated Nonstationary Measurement Error"

Novosibirsk, Avtometriya, No 5, 1971, pp 13-19

Abstract: The mathematical expression of the type of signal considered in this paper is of the form

$$x(t) = \sum_{s=1}^{m} a_s \phi^s(t).$$

The author considers the problem of filtration for a more general model of this signal, from which the polynomial given above can be deduced as a particular case. The error of signal measurement is assumed to be correlated, and the signal and error are both non-stationary. An algorithm for the filtration of the signal is derived in recurrent form for convenience in performing the required computations, with the computation time of 10 mm per cycle, on a computer of the M-220 type.

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PROCESSING DATE--020CT70

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FITLE-MATERIAL FOR WELDING TITANIUM ALLOYS -U-

AUTHOR-(02)-MORYAKOV, V.F., KUDRYAVTSEV, I.M.

COUNTRY OF INFO-USSR

REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUHL ISHED--06JAN70

SUBJECT AREAS-MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS-TITANIUM ALLOY, TITANIUM WELDING, METALLURGIC PATENT, METAL POWDER. CALCIUM FLUORIDE, WELDING FLUX

CONTROL MARKING-NO RESTRICTIONS

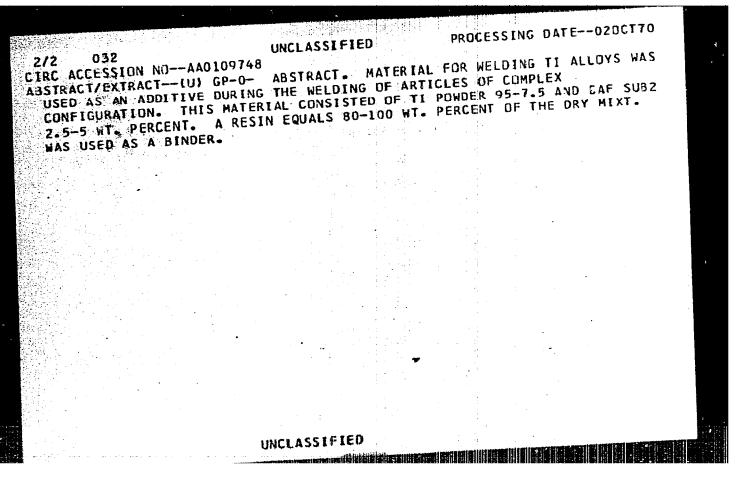
DOCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--1990/1787

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0109748

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PROCESSING DATE--020CT70

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AUTHOR-(02)-MORYAKOV, V.F., KUDRYAVTSEV. I.M.

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